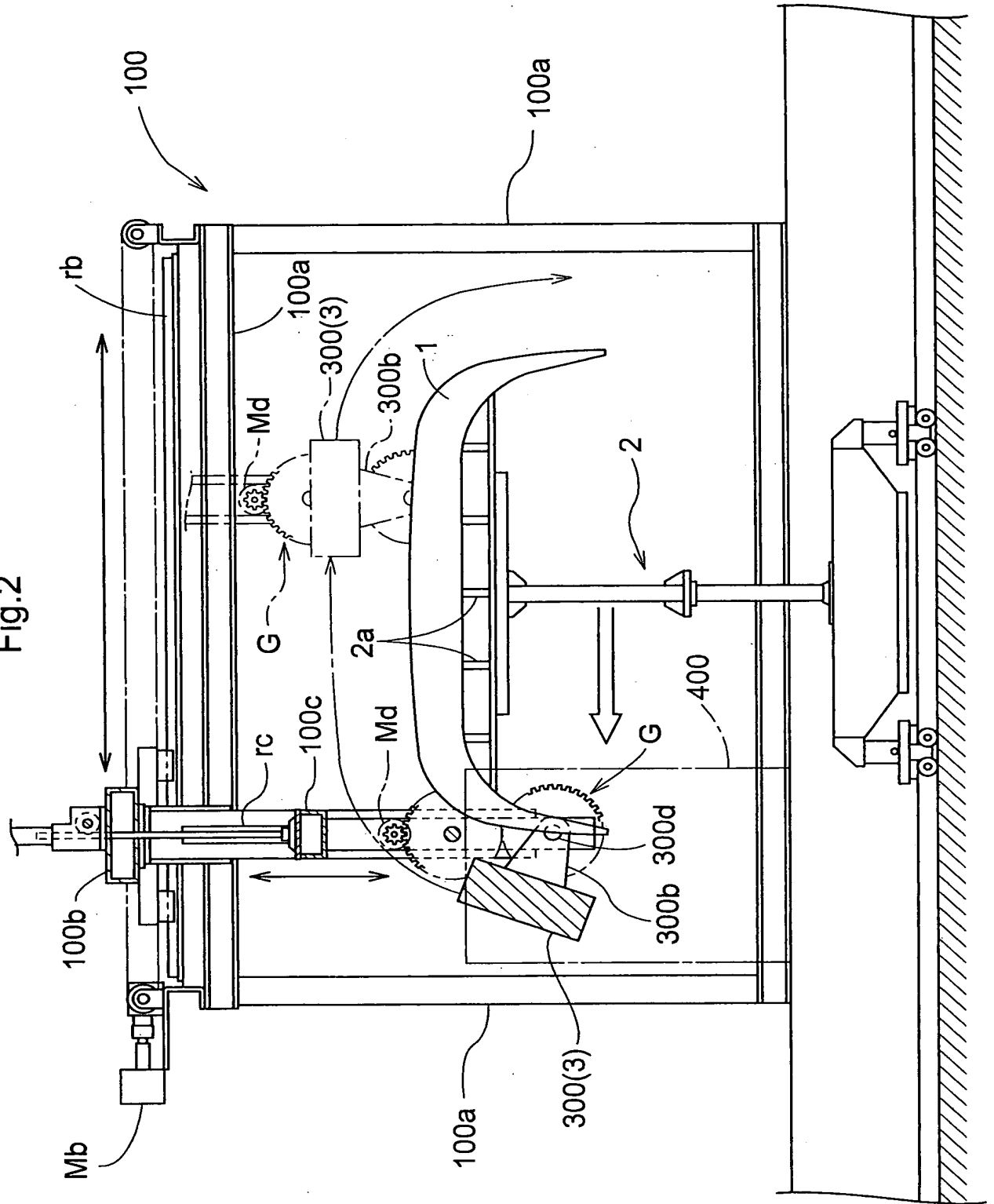


Fig.2



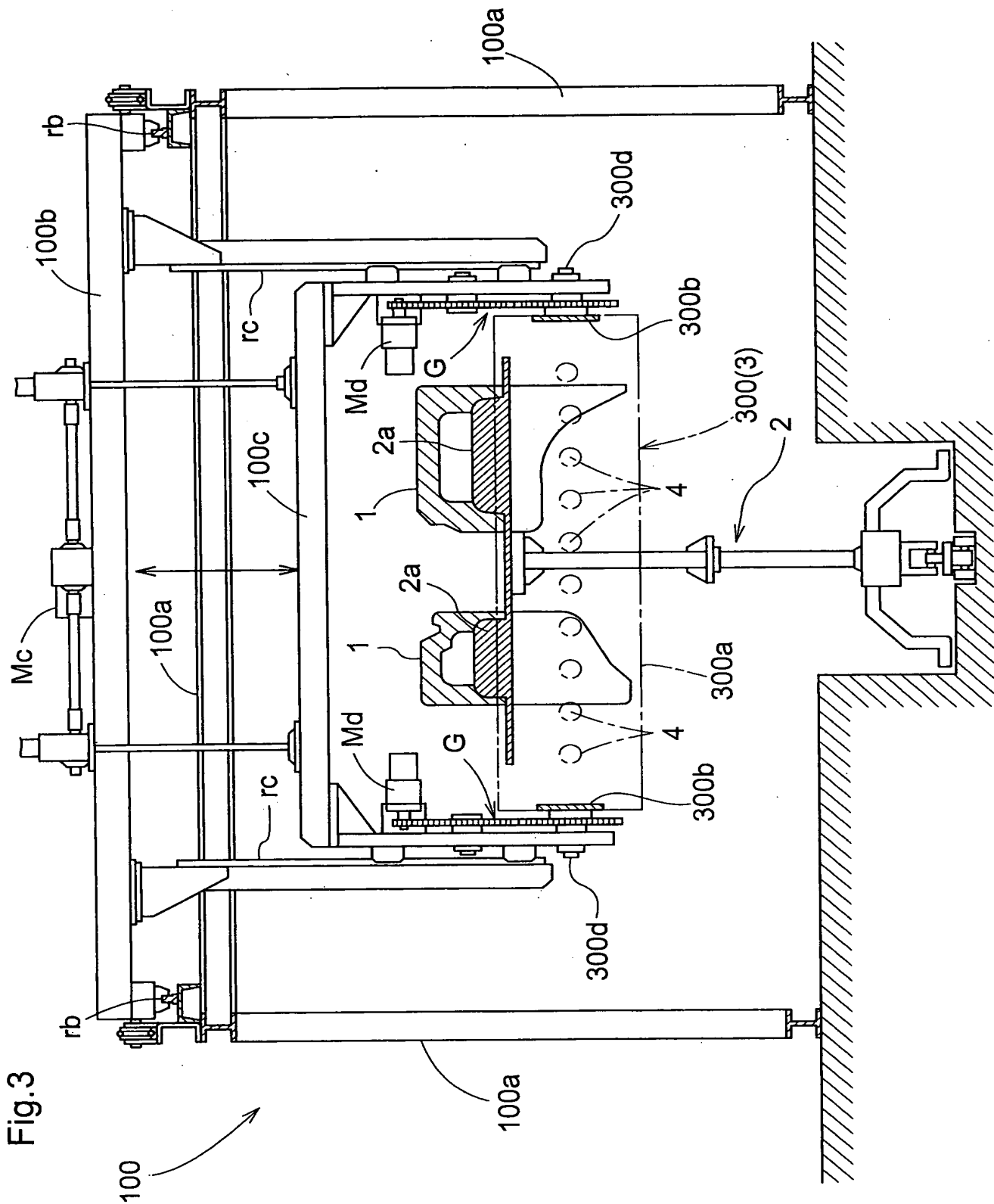


Fig. 3

Fig.4

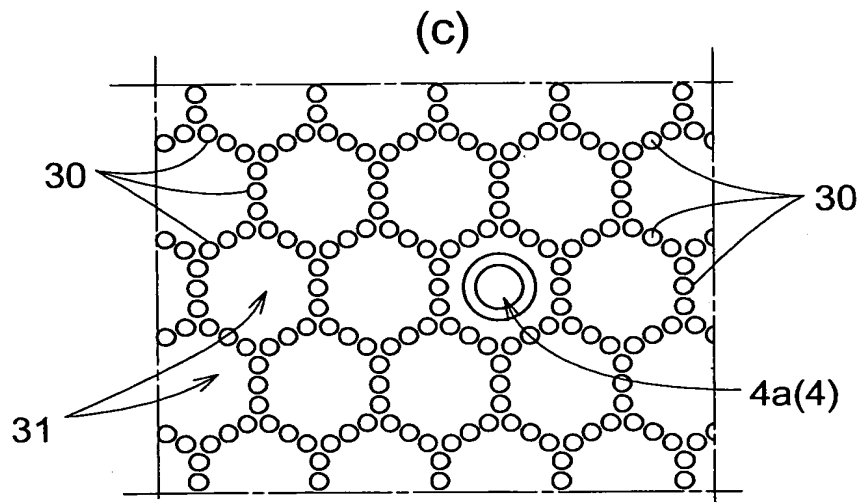
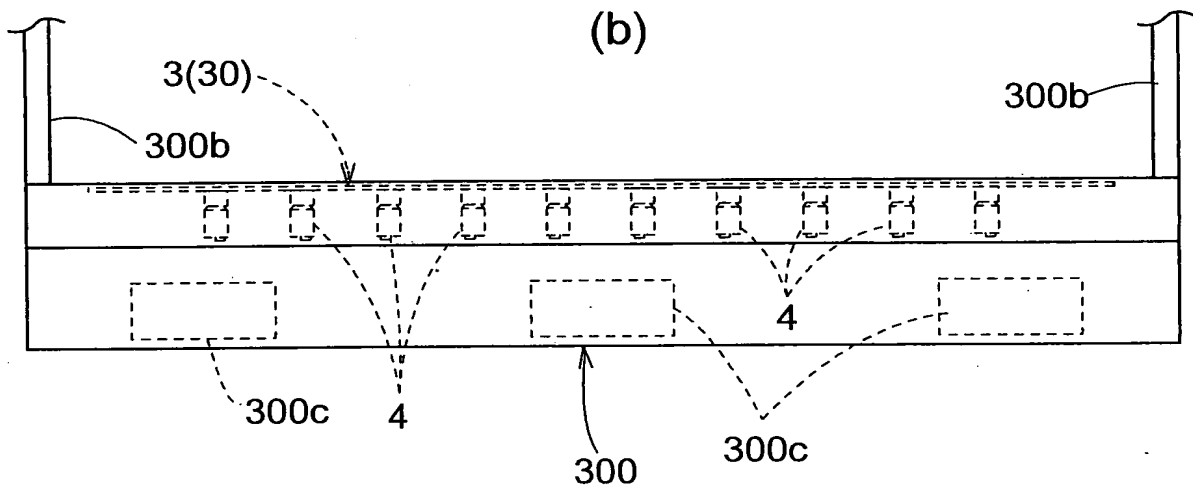
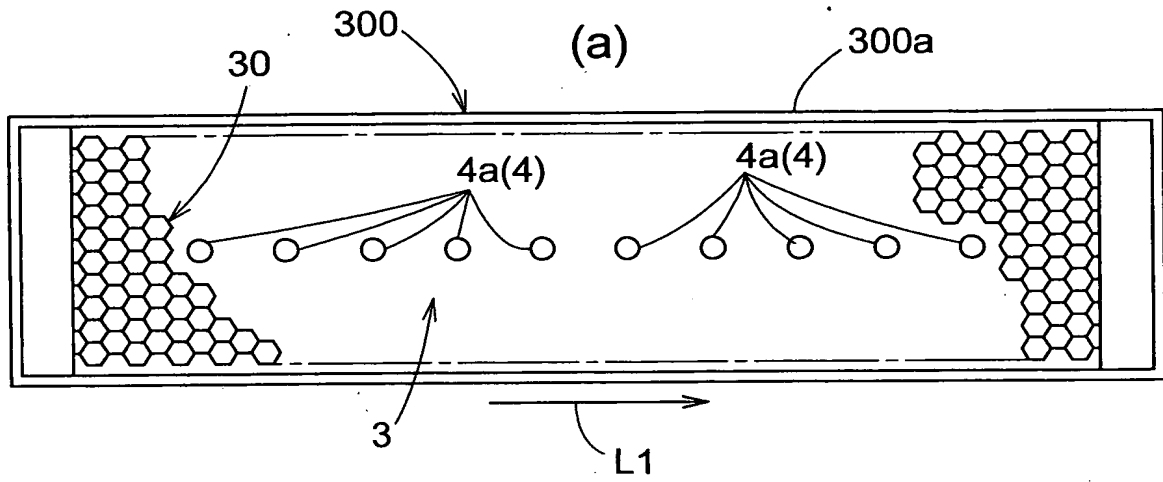


Fig.5

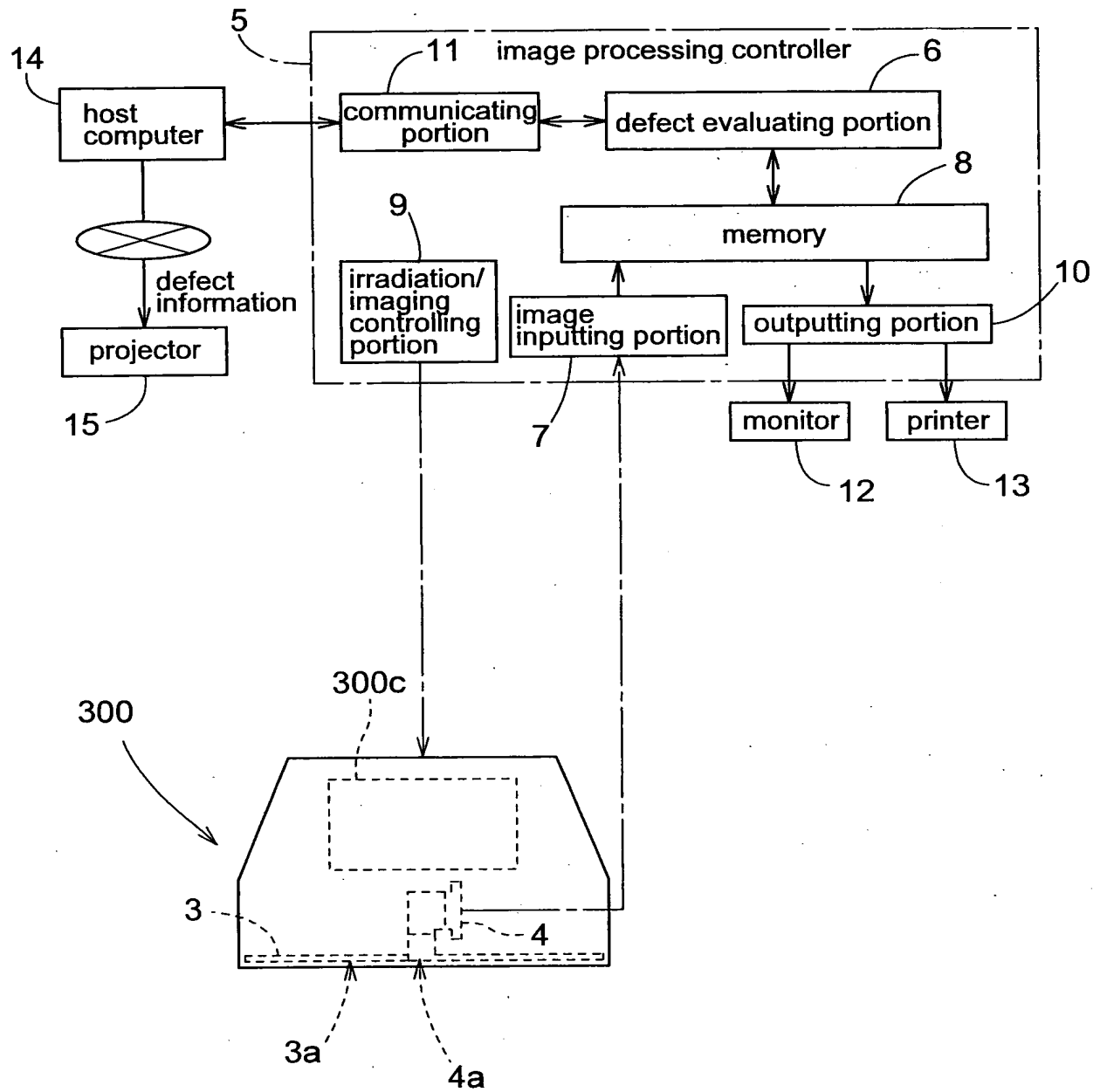
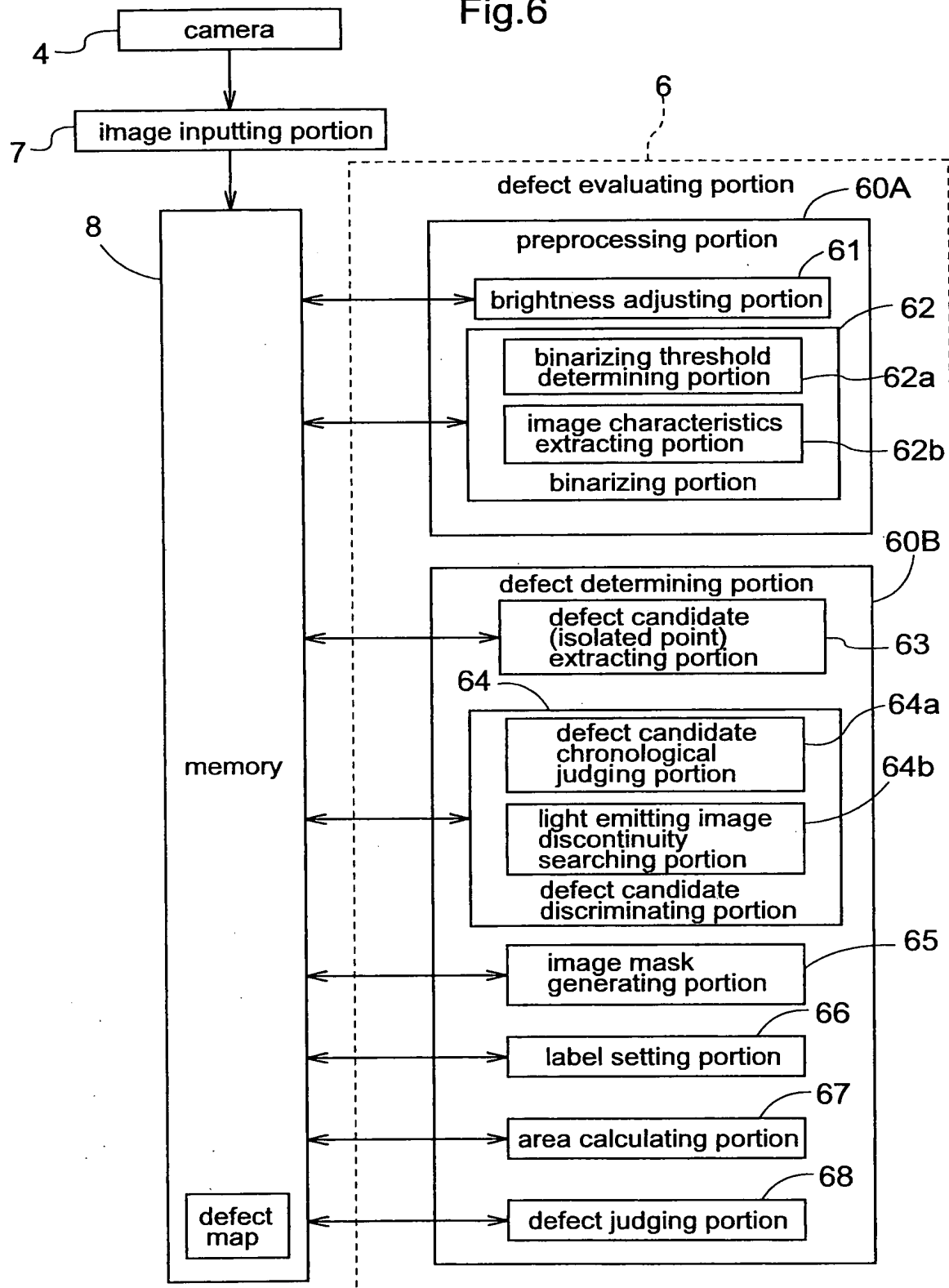


Fig.6



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Fig.7

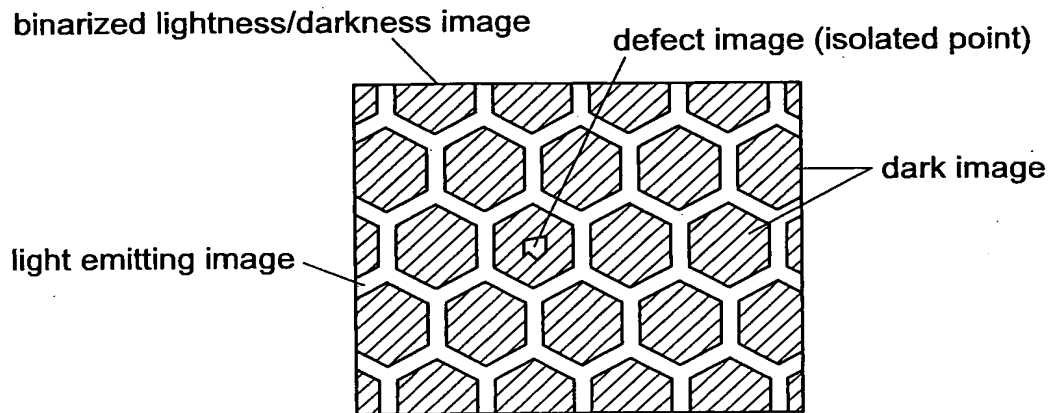


Fig.8

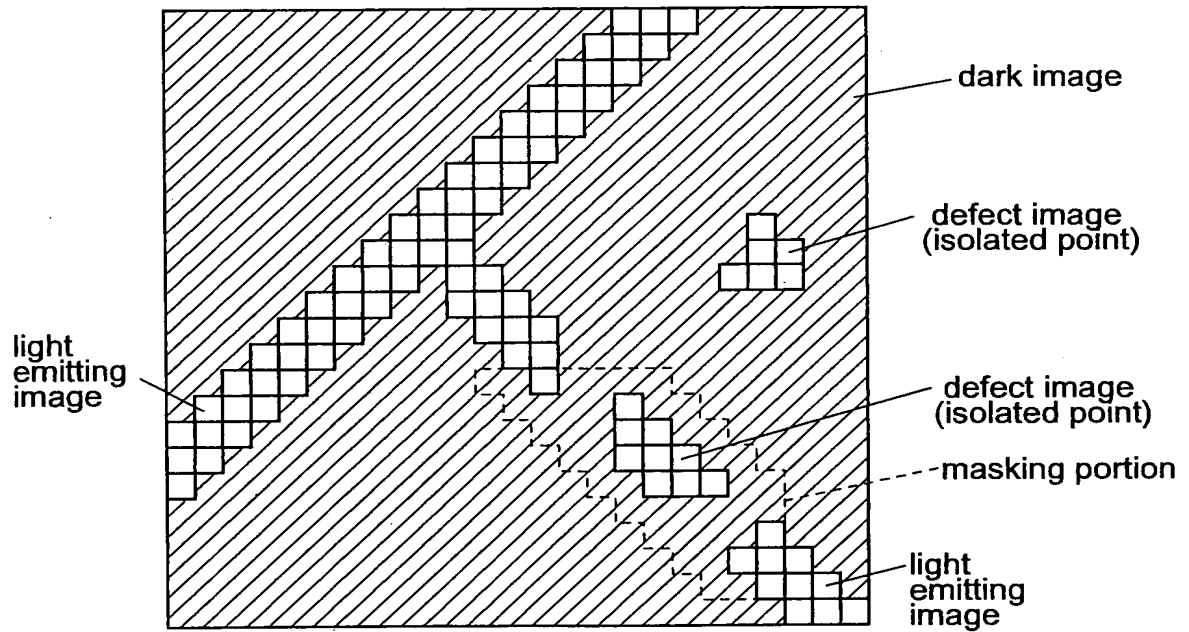


Fig.9

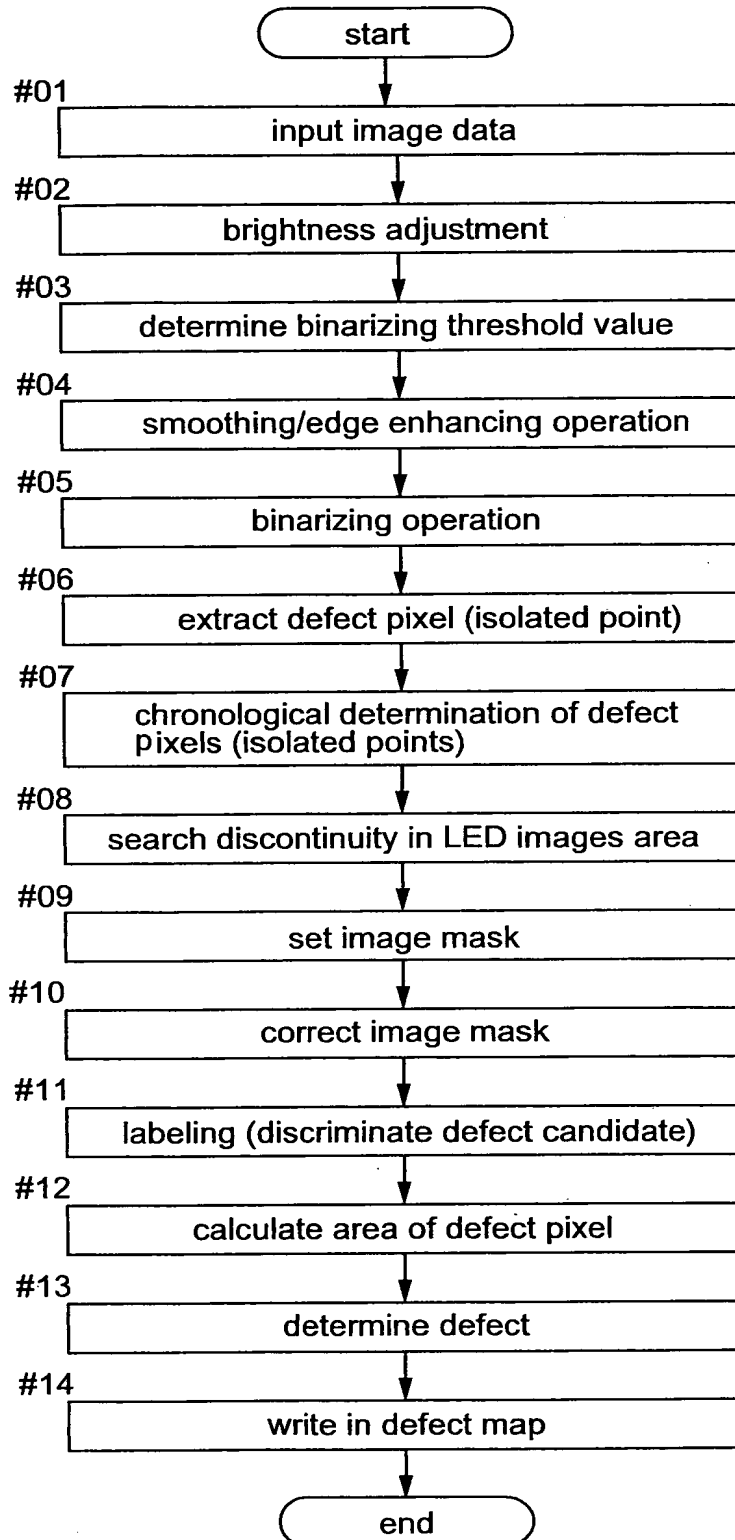




Fig.10

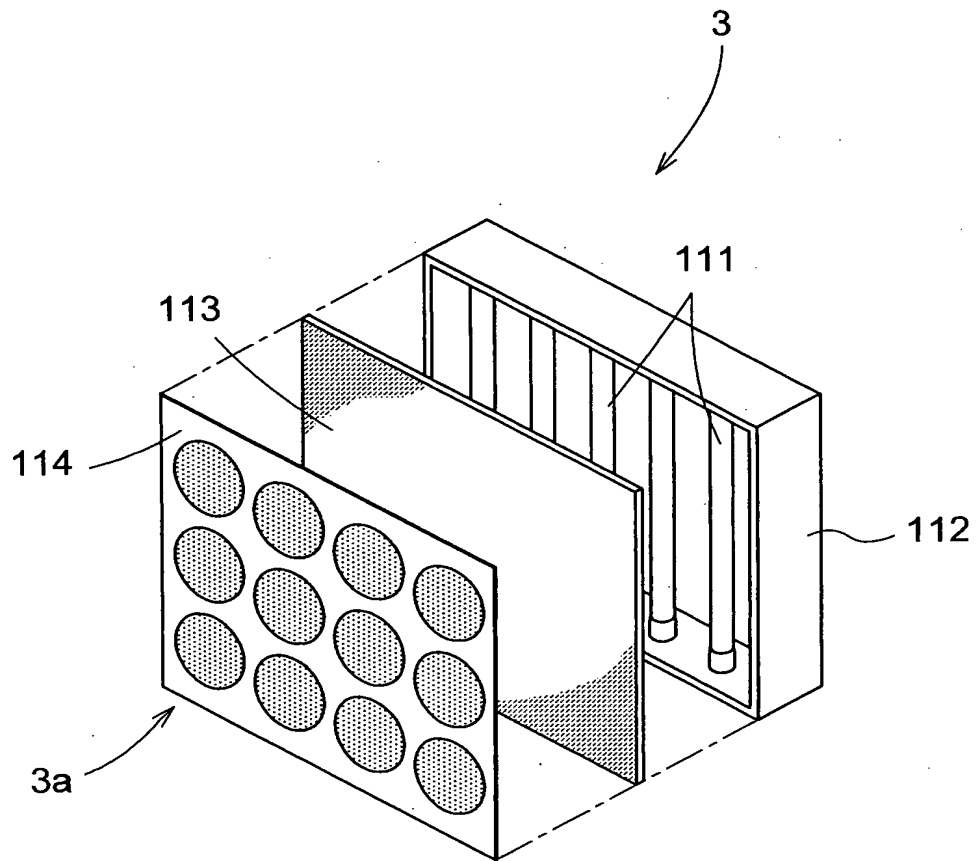


Fig.11

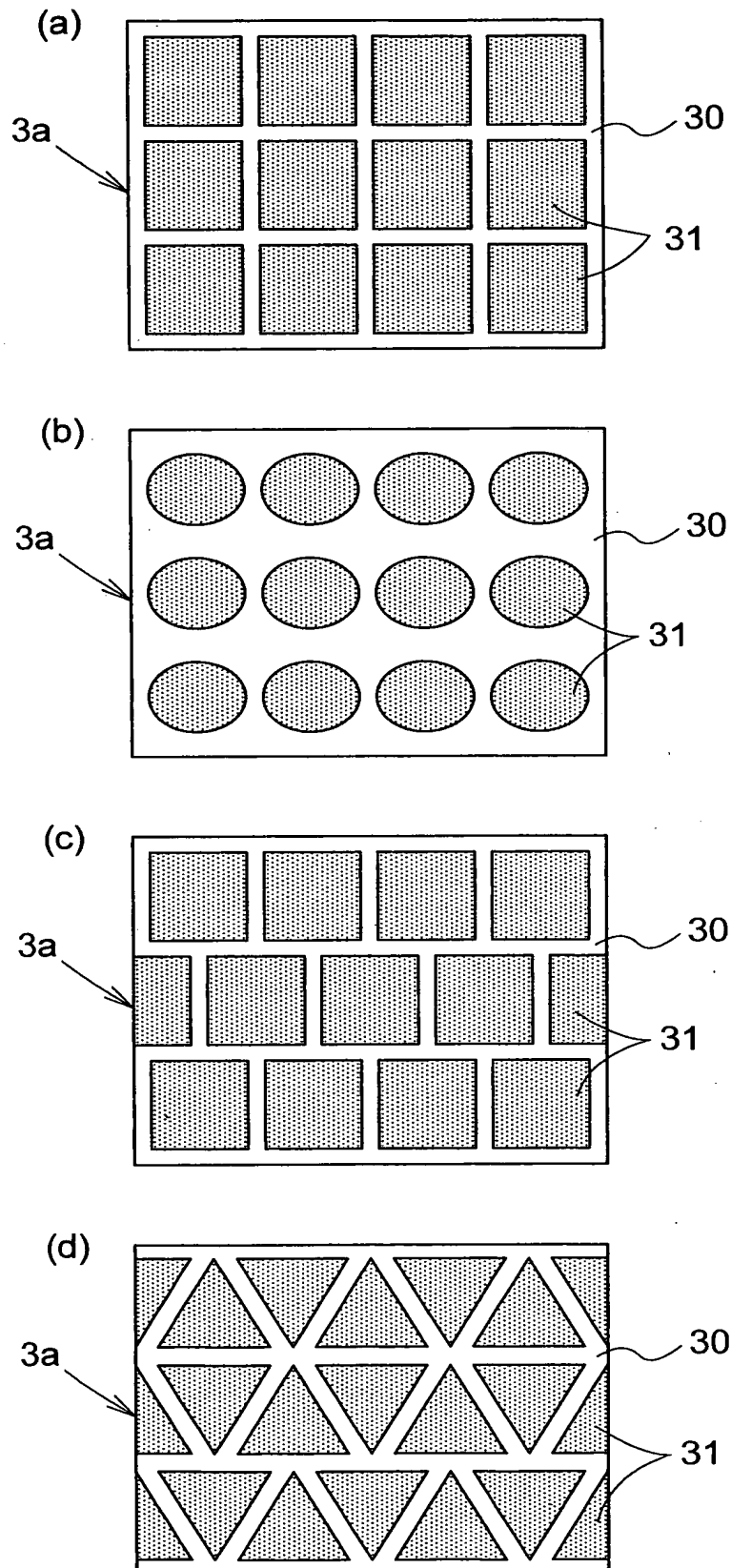


Fig.12

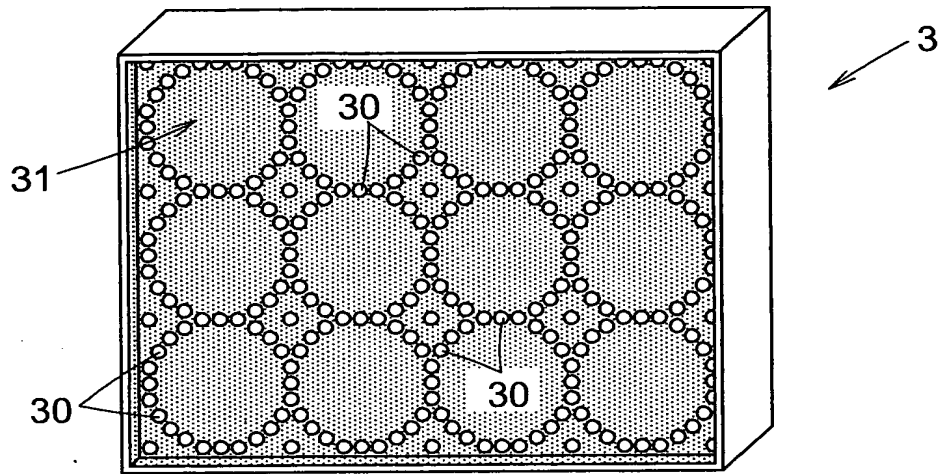


Fig.13

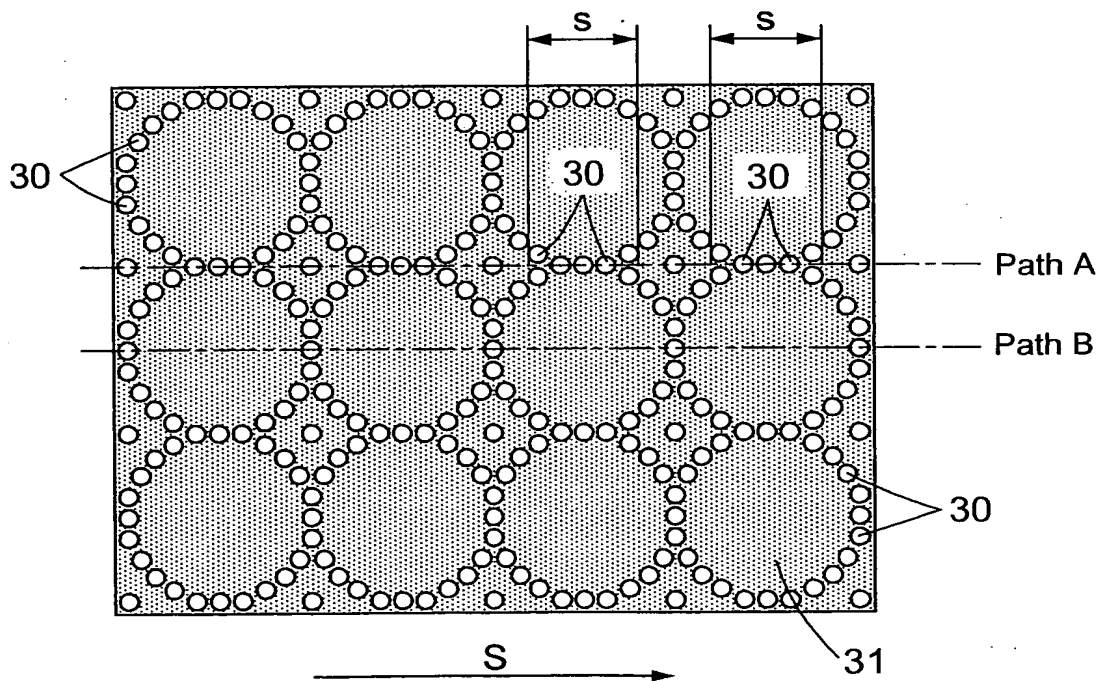


Fig.14

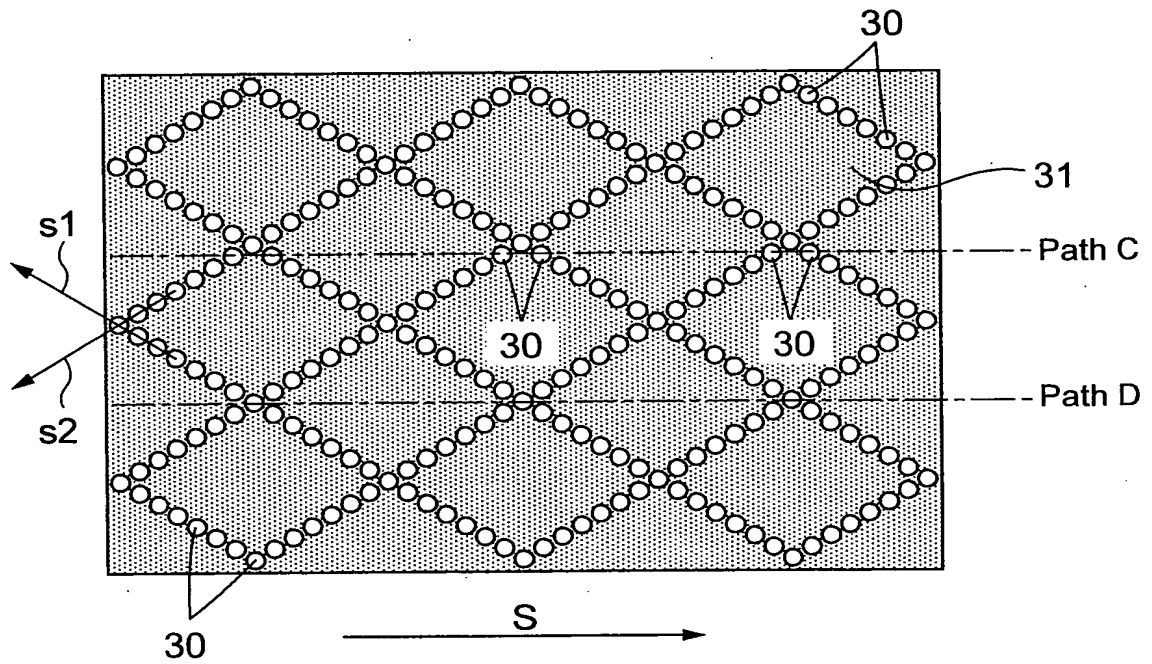
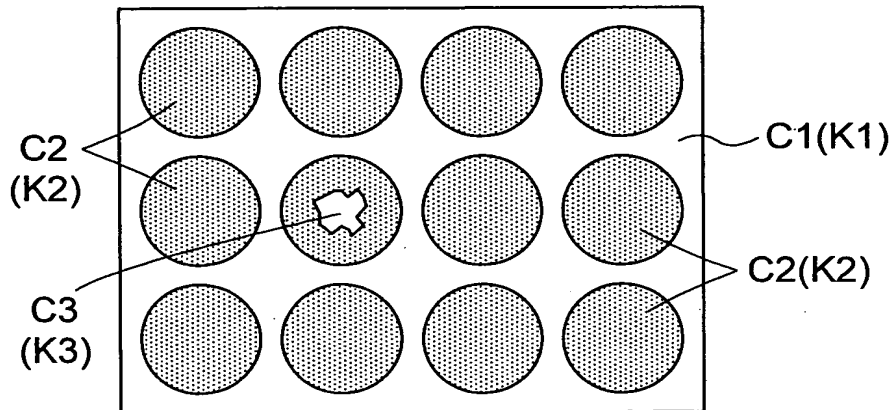
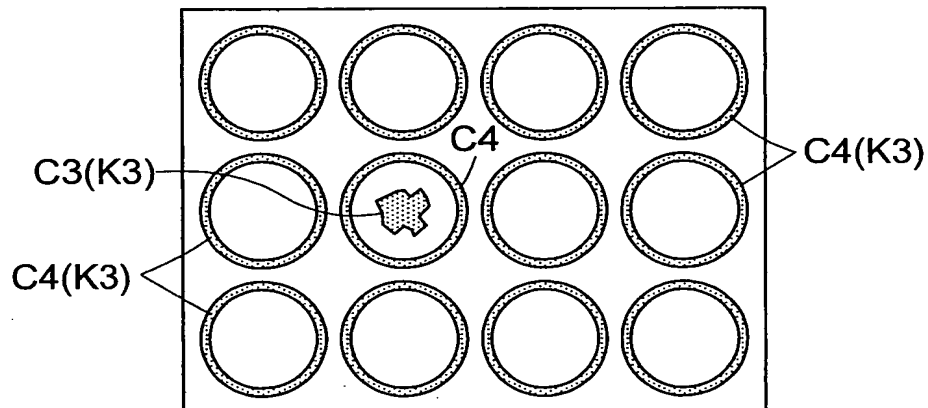


Fig.15

(a) original image



(b) ternarizing operation



(c) expanding/contracting operation

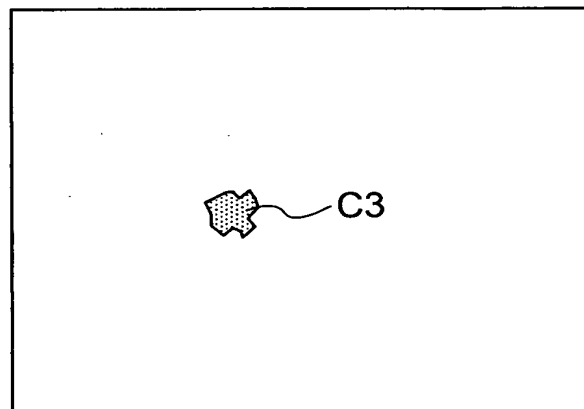


Fig.16

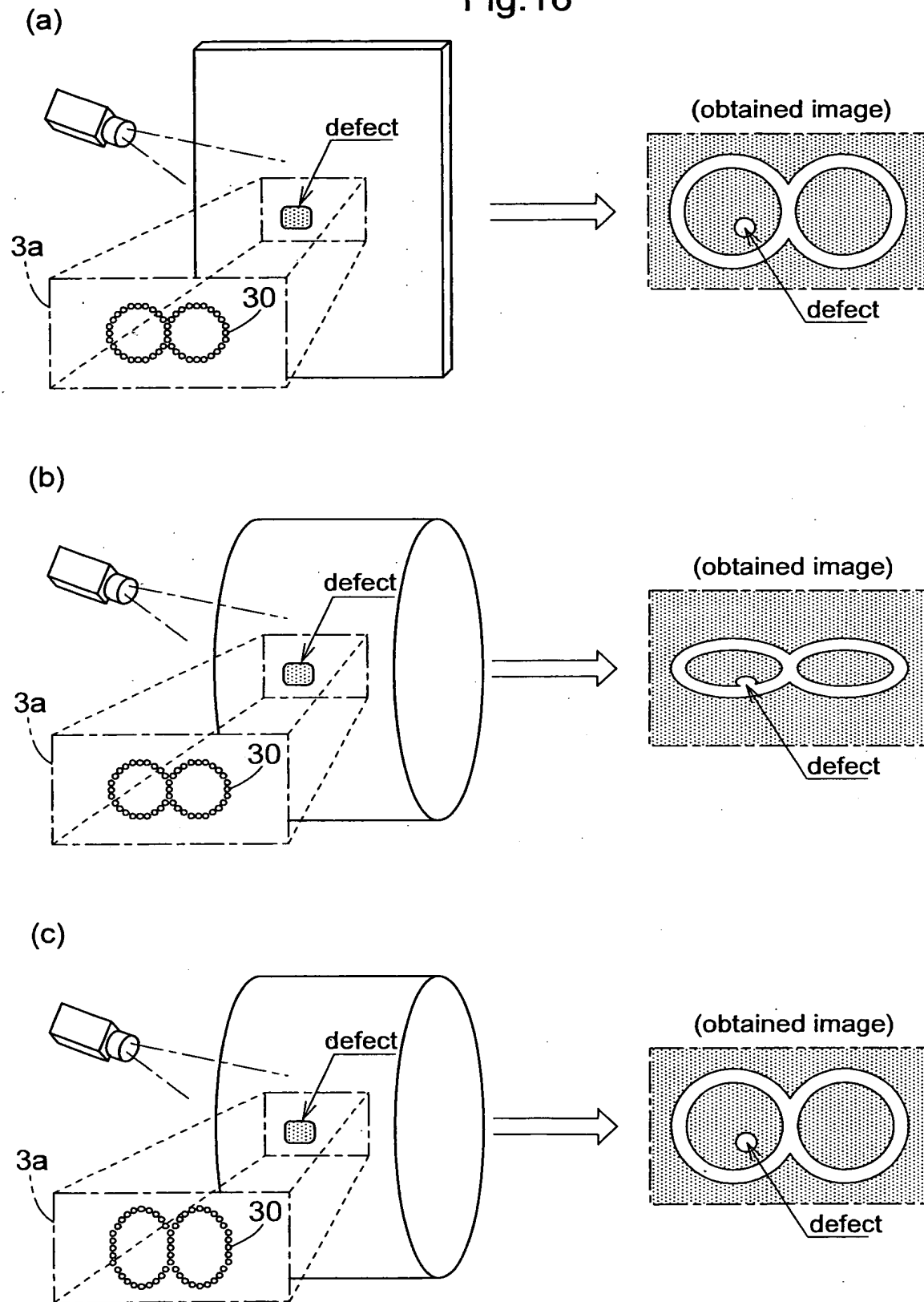


Fig.17

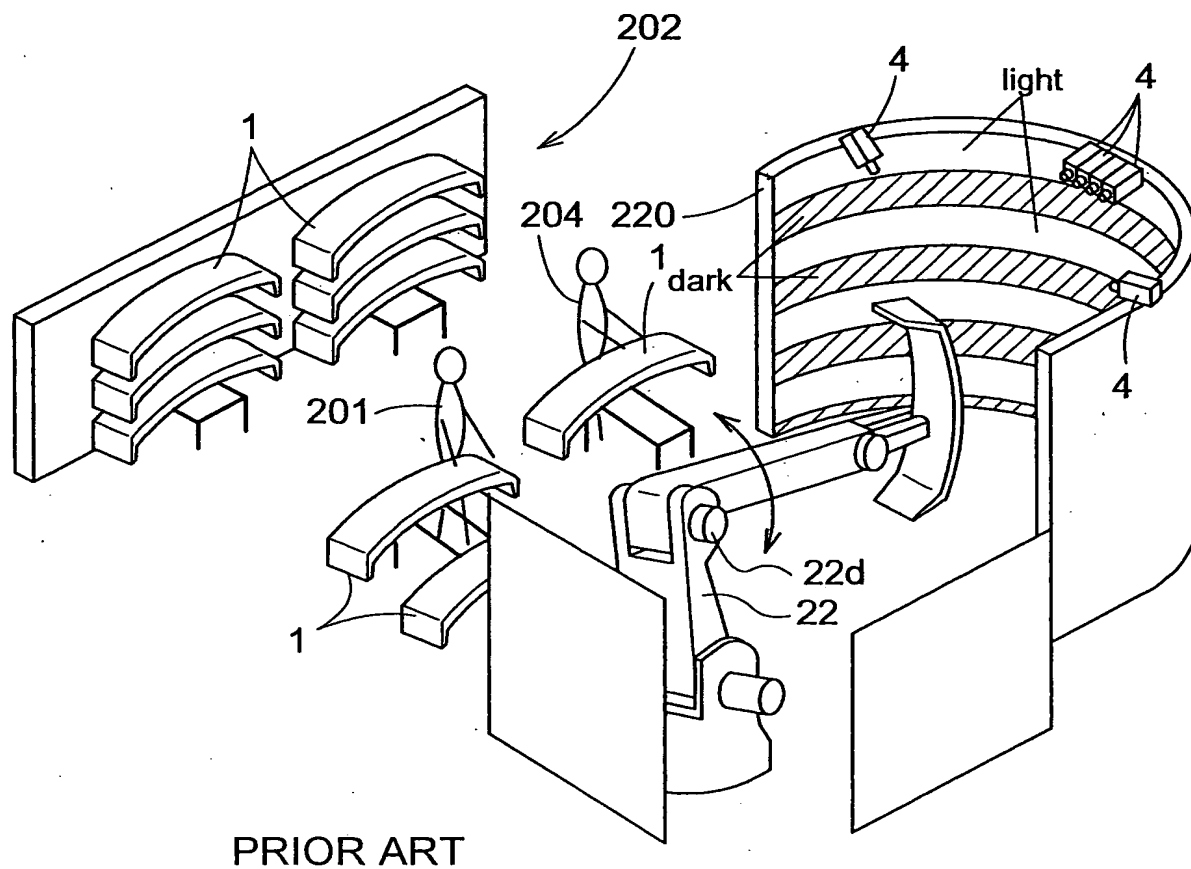


Fig.18

